

Title (en)
Process for the preparation of fatty acid esters

Title (de)
Verfahren zum Herstellen von Fettsäureester

Title (fr)
Procédé de fabrication d'esters de corps gras

Publication
EP 0924185 B1 20020918 (FR)

Application
EP 98403164 A 19981215

Priority
FR 9716293 A 19971218

Abstract (en)
[origin: EP0924185A1] The process enables the simultaneous production of a 6-26C ester composition and glycerin from primary products such as used frying oils by reaction with a 1-4C monoalcohol. The ester composition can be used as a gas oil fuel substitute. The composition of 6-26C linear monocarboxylic esters is obtained as follows: (a) the vegetable or animal oil (optionally acidic) is reacted with an excess of a 1-4C aliphatic mono-alcohol in the presence of a heterogeneous catalyst, with the elimination of excess monoalcohol and separation of glycerin : a crude ester product containing fatty acid esters and residual monoglycerides is obtained; (b) the crude ester is submitted to reaction of transesterification or esterification of residual monoglycerides into di- and possibly tri-glycerides in the presence of a similar heterogeneous catalyst by the fatty acid esters or an added 6-26C fatty acid; and (c) the ester composition is evaporated under reduced pressure and the residue , containing di-and triglycerides recycled to (a). An Independent claim is also included for the ester composition obtained by the process.

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C07C 67/03; **C07C 69/52**

IPC 8 full level
C07C 67/03 (2006.01)

CPC (source: EP US)
C07C 67/03 (2013.01 - EP US); **C11C 3/003** (2013.01 - EP US)

C-Set (source: EP US)
C07C 67/03 + **C07C 69/52**

Cited by
FR2869612A1; EP1593732A1; FR2890656A1; FR2869613A1; EP1460124A1; FR2852602A1; US7420073B2; US7151187B2; WO2018002559A1; US10533145B2

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